

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
20 October 2005 (20.10.2005)

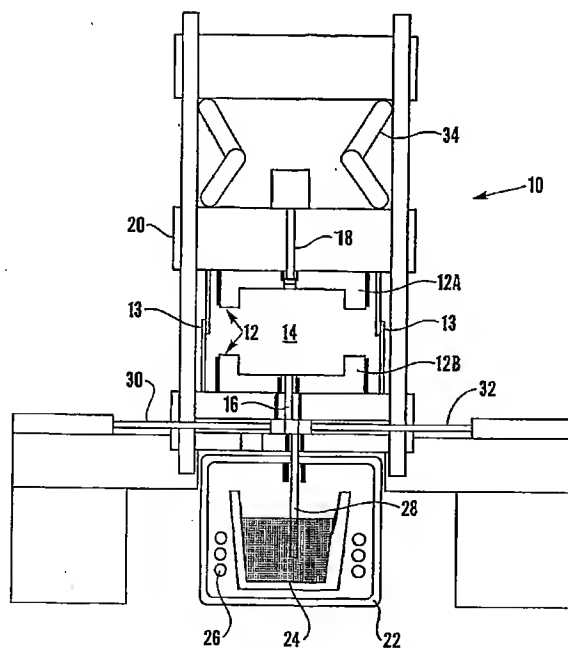
PCT

(10) International Publication Number
WO 2005/097377 A1

- (51) International Patent Classification⁷: **B22D 19/14**, 17/20, 17/22, 19/00
- (21) International Application Number: PCT/GB2004/003382
- (22) International Filing Date: 12 August 2004 (12.08.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: 0408044.6 8 April 2004 (08.04.2004) GB
- (72) Inventor; and
(75) Inventor/Applicant (for US only): **BUSHBY, Roger, Stanley** [GB/GB]; 7 Roseberry Close, Basingstoke, Hampshire RG22 4XR (GB).
- (74) Agent: **MAGUIRE BOSS**, 5 Crown Street, St. Ives, Cambridgeshire PE27 5EB (GB).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH,

[Continued on next page]

(54) Title: LIQUID PRESSURE FORMING



(57) Abstract: A method of pressure forming a metal matrix composite (MMC), comprises: placing a fibre preform (not shown) into a die cavity (14) defined by a split die (12); introducing molten metal into the die cavity (14) through a sprue (16) to envelope the fibre preform; sealing the sprue (16); applying pressure direct to molten metal in the die cavity (14) with a mechanical compaction piston (18) to encourage infiltration of the fibre preform during solidification.



GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.